Inventor Search

Rooke 10/724,833

13/01/2005

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L17 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:486395 HCAPLUS

DOCUMENT NUMBER: 141:42891

TITLE: Artificial low-density lipoprotein carriers

for transport of substances across the blood-brain

barrier

INVENTOR(S):
Nelson, Thomas J.; Quattrone, Alessandro;

Alkon, Daniel L.

PATENT ASSIGNEE(S): Blanchette Rockefeller Neurosciences Institute, USA

SOURCE: PCT Int. Appl., 41 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT	NO.			KIN	D :	DATE		1	APPL	ICAT:	ION 1	NO.		D	ATE		
						-									-			
	WO 2004	WO 2004050062				A2 20040617			WO 2003-IB5558					20031202				
	W:	ΑE,	AG,	AL,	AM,	AT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,	
		CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,	GE,	
		GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KΡ,	KR,	ΚZ,	LC,	LK,	
		LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NI,	NO,	NZ,	
		OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,	TJ,	TM,	
		TN,	TR,	TT,	TZ,	UA,	ŪĠ,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW				
	RW:	BW,	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	ΑZ,	
		BY,	KG,	KZ,	MD,	RU,	ТJ,	TM,	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	
		ES,	FI,	FR,	GB,	GR,	HU,	ΙE,	IT,	LU,	MC,	NL,	PT,	RO,	SE,	SI,	SK,	
		TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG
US 2004204354				A1 20041014				US 2003-724833				20031202						
PRIORITY APPLN. INFO.: US 2002-430476P										76P	P 20021203							
AB This invention relates to a highly efficient artificia										cial	low-d.							

AB This invention relates to a highly efficient artificial low-d.

lipoprotein (LDL) carrier system for the targeted delivery
therapeutic agents across the blood-brain barrier (BBB). In particular,
this invention relates to artificial LDL particles comprised of three
lipid elements: phosphatidyl choline, fatty-acyl-cholesterol esters, and
at least one apolipoprotein. The present invention further
relates to compns., methods and kits comprising artificial LDL particles
for targeting drugs to and across the BBB for the prevention and treatment
of brain diseases.

IC ICM A61K009-127

ICS A61K031-704; A61K047-42; A61K047-28

CC 63-5 (Pharmaceuticals)

ST brain delivery LDL carrier apolipoprotein

IT Apolipoproteins

RL: PEP (Physical, engineering or chemical process); PYP (Physical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

(B; low-d. lipoprotein carriers for transport of substances across blood-brain barrier)

IT Apolipoproteins

RL: PEP (Physical, engineering or chemical process); PYP (Physical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

(E3; low-d. lipoprotein carriers for transport of substances across blood-brain barrier)

IT Apolipoproteins

RL: PEP (Physical, engineering or chemical process); PYP (Physical

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process); THU (Therapeutic use); BIOL (Biological study); PROC (Process);
     USES (Uses)
        (E4; low-d. lipoprotein carriers for transport of substances
        across blood-brain barrier)
IT
     Apolipoproteins
     RL: PEP (Physical, engineering or chemical process); PUR (Purification or
     recovery); PYP (Physical process); THU (Therapeutic use); BIOL (Biological
     study); PREP (Preparation); PROC (Process); USES (Uses)
        (E; low-d. lipoprotein carriers for transport of substances
        across blood-brain barrier)
IT
     Drug delivery systems
        (carriers; low-d. lipoprotein carriers for transport of
        substances across blood-brain barrier)
IT
     Drug delivery systems
        (liposomes; low-d. lipoprotein carriers for transport of
        substances across blood-brain barrier)
IT
     Antibiotics
     Antitumor agents
     Antiviral agents
     Blood-brain barrier
    Brain
     Fungicides
     Particle size
     Stability
     Transcytosis
        (low-d. lipoprotein carriers for transport of substances
        across blood-brain barrier)
TT
    Amino acids, biological studies
     Antibodies and Immunoglobulins
     Carbohydrates, biological studies
     Enzymes, biological studies
     Growth factors, animal
     Lipids, biological studies
     Neurotransmitters
     Neurotrophic factors
     Peptides, biological studies
     Phosphatidylcholines, biological studies
     Proteins
     RL: PEP (Physical, engineering or chemical process); PYP (Physical
     process); THU (Therapeutic use); BIOL (Biological study); PROC (Process);
     USES (Uses)
        (low-d. lipoprotein carriers for transport of substances
        across blood-brain barrier)
IT
     Lipoproteins
     RL: PEP (Physical, engineering or chemical process); PYP (Physical
    process); THU (Therapeutic use); BIOL (Biological study); PROC (Process);
     USES (Uses)
        (low-d.; low-d. lipoprotein carriers for transport of
        substances across blood-brain barrier)
TΤ
    Neurohormones
    RL: PEP (Physical, engineering or chemical process); PYP (Physical
    process); THU (Therapeutic use); BIOL (Biological study); PROC (Process);
    USES (Uses)
        (neuromodulators; low-d. lipoprotein carriers for transport
        of substances across blood-brain barrier)
    701261-26-9P
                    701261-27-0P
IT
    RL: PEP (Physical, engineering or chemical process); PYP (Physical
    process); SPN (Synthetic preparation); THU (Therapeutic use); BIOL
     (Biological study); PREP (Preparation); PROC (Process); USES (Uses)
        (low-d. lipoprotein carriers for transport of substances
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across blood-brain barrier) 303-43-5, Cholesteryl oleate IT RL: PEP (Physical, engineering or chemical process); PYP (Physical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses) (low-d. lipoprotein carriers for transport of substances across blood-brain barrier) 57-88-5, Cholesterol, reactions 60-54-8, Tetracycline 85-44-9, IT Phthalic anhydride 771-61-9, Pentafluorophenol 1249-81-6, ThioCholesterol 25316-40-9, Adriamycin RL: RCT (Reactant); RACT (Reactant or reagent) (low-d. lipoprotein carriers for transport of substances across blood-brain barrier) 24951-79-9P, Cholesterol phthalate 701261-24-7P IT RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (low-d. lipoprotein carriers for transport of substances across blood-brain barrier)

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	FILE 'HCAPLUS' ENTERED AT 17:16:40 ON 13 JAN 2005	•
L1	29816 SEA ABB=ON ?APOLIPOPROTEIN? OR ?APOE?	
L2	1399 SEA ABB=ON L1 AND (?DRUG?(W)?DELIVER? OR ?CARRIER?)	
	FILE 'REGISTRY' ENTERED AT 17:17:56 ON 13 JAN 2005	
	E PHOSPHATIDYLCHOLINE/CN	
	FILE 'HCAPLUS' ENTERED AT 17:18:13 ON 13 JAN 2005	
L3	197 SEA ABB=ON L2 AND (?PHOSPHATIDYLCHOLIN? OR ?PHOSPHOLIPID?)	
L4	3 SEA ABB=ON L3 AND ?LIPID?(W)?CORE?	
	FILE 'REGISTRY' ENTERED AT 17:18:57 ON 13 JAN 2005	
	E CHOLESTEROL/CN	
L5	1 SEA ABB=ON CHOLESTEROL/CN	
	FILE 'HCAPLUS' ENTERED AT 17:19:08 ON 13 JAN 2005	
L6	143 SEA ABB=ON L3 AND (L5 OR ?CHOLESTEROL?)	
L7	77 SEA ABB=ON L6 AND (?DRUG? OR ?PHARM? OR ?ANTIBIOTIC? OR	
	?THERAP?) O SEA ABB=ON L7 AND ?ESTER?(W)?BOND?	
L8		
	76 SEA ABB=ON L7 AND ?ESTER?	
L10	25 SEA ABB=ON L9 AND LDL	
	76 SEA ABB=ON L9 OR L10	
	67 SEA ABB=ON L11 AND (PRD<20021203 OR PD<20021203)	
L13	23 SEA ABB=ON L12 AND LDL 23 cit's from CA Plus	
	ETTE IMEDITUE DIOCIC EMPACE TARIO TICCE ENTUCI ENUMERED AM 17.01.45 ON	
	FILE 'MEDLINE, BIOSIS, EMBASE, JAPIO, JICST-EPLUS' ENTERED AT 17:21:45 ON 13 JAN 2005	
T 1 4	TO CEN NOR-ON 112	11
L14	9 SEA ABB=ON L13	an5
L15	9 SEA ABB=ON L13 9 DUP REMOV L14 (0 DUPLICATES REMOVED) 9 Civil from other	